**Raspberry Lites Walkthrough**

**Check List / Troubleshoot Guide**

* Raspberry Pi running with Raspbian Legacy Bullseye OS
* Open Terminal in Raspberry Pi
* 3 libraries must be installed using the following commands:
  + sudo pip3 install **rpi\_ws281x**
  + sudo pip3 install **adafruit-circuitpython-neopixel**
  + sudo python3 -m pip install --force-reinstall **adafruit-blinka**
* Connect 5v LED Strip to 5v Power Supply with **positive** **(red)** wire and **ground/negative** **(black)** wire.
* Connect 5v LED Strip to Ground Pin with **ground wire** **(black)** and Pin 18 on GPIO with **data wire (green)**.
* Make Sure **dtparam=audio=on** is set to **off** in config file
  + In terminal, type **sudo nano /boot/config.txt**
  + Change **dtparam=audio=on** to **dtparam=audio=off**
  + press **| Ctrl + X |** and then **| Y |** to save and exit
* Open Thonny from terminal using the command **sudo thonny** for root privileges
* Make sure Thonny is running in normal mode (restart to put changes in effect)
* Use provided template or **strandtest.py**

**Instructional Guide**

1. Edit **LED\_COUNT** for the number of Pixels you want to turn on **(0-60)**
2. Edit  **LED\_BRIGHTNESS**  for the level of brightness **(0– 255)**
3. Edit **color()** parameters for **colorWipe()** and **theaterChase() (0-255)**
   1. **color(x , y , z)**
4. Run code and enjoy the light show!